

Figure 1 (A)

<u>GGATCGTCTCAGGTCAGCGGAGGGA</u>	25
SL33	
<u>GGAGACTTATAGACCTATCCAGTCT</u>	50
TCAAGGTGCTCCAGAAAGCAGGAGT	75
TGAAGACCTGGGTGTGAGGGACACA	100
TACATCCTAAAAGCACCACAGCAGA	125
GGAGGCCCAGGCAGTGCCAGGAGTC	150
AAGGTTCCCAGAAGACAAACCCCT	175
AGGAAGACAGGCGACCTGTGAGGCC	200
<u>CTAGAGCACCACTTAAGAGAAGAA</u>	225
SL34	
GAGCTGTAAGCCGGCCTTTGTCAGA	250
GCCATCATGGGGGACAAGGATATGC	275
CTACTGCTGGGATGCCGAGTCTTCT	300
CCAGAGTTCCTCTGAGAGTCCTCAG	325
AGTTGTCCTGAGGGGGAGGACTCCC	350
AGTCTCCTCTCCAGATTCCCCAGAG	375
TTCTCCTGAGAGCGACGACACCCTG	400
TATCCTCTCCAGAGTCCTCAGAGTC	425
GTTCTGAGGGGGAGGACTCCTCGGA	450
TCCTCTCCAGAGACCTCCTGAGGGG	475
AAGGACTCCCAGTCTCCTCTCCAGA	500
TTCCCCAGAGTTCTCCTGAGGGCGA	525
CGACACCCAGTCTCCTCTCCAGAAT	550
TCTCAGAGTTCTCCTGAGGGGAAGG	575
ACTCCCTGTCTCCTCTAGAGATTTC	600
TCAGAGCCCTCCTGAGGGTGAGGAT	625
GTCCAGTCTCCTCTGCAGAATCCTG	650
CGAGTTCCTTCTTCTCCTCTGCTTT	675
ATTGAGTATTTTCCAGAGTTCCCCT	700

Figure 1(B)

GAGAGAACTCAGAGTACTTTTGAGG	725
GTTTTCCCCAGTCTCCTCTCCAGAT	750
TCCTGTGAGCTCCTCCTCCTCCTCC	775
ACTTTATTGAGTCTTTTCCAGAGTT	800
CCCCTGAGAGAACTCAGAGTACTTT	825
TGAGGGTTTTTCCCCAGTCTTCTC	850
CAGATTCCTATGACCTCCTCCTTCT	875
CCTCTACTTTATTGAGTATTTTCCA	900
GAGTTCTCCTGAGAGTGCTCAAAGT	925
ACTTTTGAGGGTTTTTCCCCAGTCTC	950
CTCTCCAGATTCCTGGGAGCCCCTC	975
CTTCTCCTCCACTTTACTGAGTCTT	1000
TTCCAGAGTTCCCCTGAGAGAACTC	1025
ACAGTACTTTTGAGGGTTTTTCCCCA	1050
GTCTCCTCTCCAGATTCCTATGACC	1075
TCCTCCTTCTCCTCTACTTTATTGA	1100
GTATTTTCCAGAGTTCTCCTGAGAG	1125
TGCTCAAAGTACTTTTGAGGGTTTT	1150
CCCCAGTCTCCTCTCCAGATTCCTG	1175
GGAGCCCCTCCTTCTCCTCCACTTT	1200
ACTGAGTCTTTTCCAGAGTTCCCCT	1225
GAGAGAACTCACAGTACTTTTGAGG	1250
GTTTTCCCCAGTCTCCTCTCCAGAT	1275
TCCTATGACCTCCTCCTTCTCCTCT	1300
ACTTTATTGAGTATTTTACAGAGTT	1325
CTCCTGAGAGTGCTCAAAGTGCTTT	1350
TGAGGGTTTTTCCCCAGTCTCCTCTC	1375
CAGATTCCTGTGAGCTCCTCTTCT	1400

Figure 1 (C)

CCTACACTTTATTGAGTCTTTTCCA	1425
GAGTTCCCCTGAGAGAACTCAGAGT	1450
ACTTTTGAGGGTTTTCCCCAGTCTC	1475
CTCTCCAGATTCCTGTGAGCTCCTC	1500
CTCCTCCTCCTCCACTTTATTGAGT	1525
CTTTTCCAGAGTTCCCCTGAGTGTA	1550
CTCAAAGTACTTTTGAGGGTTTTCC	1575
CCAGTCTCCTCTCCAGATTCCTCAG	1600
AGTCCTCCTGAAGGGGAGAATACCC	1625
ATTCTCCTCTCCAGATTGTTCCAAG	1650
TCTTCCTGAGTGGGAGGACTCCCTG	1675
TCTCCTCACTACTTTCCTCAGAGCC	1700
CTCCTCAGGGGGAGGACTCCCTATC	1725
TCCTCACTACTTTCCTCAGAGCCCT	1750
CCTCAGGGGGAGGACTCCCTGTCTC	1775
CTCACTACTTTCCTCAGAGCCCTCA	1800
GGGGGAGGACTCCCTGTCTCCTCAC	1825
TACTTTCCTCAGAGCCCTCCTCAGG	1850
GGGAGGACTCCATGTCTCCTCTCTA	1875
CTTTCCTCAGAGTCCTCTTCAGGGG	1900
GAGGAATTCCAGTCTTCTCTCCAGA	1925
GCCCTGTGAGCATCTGCTCCTCCTC	1950
CACTCCATCCAGTCTTCCCCAGAGT	1975
TTCCCTGAGAGTTCTCAGAGTCCTC	2000
CTGAGGGGCCTGTCCAGTCTCCTCT	2025
CCATAGTCCTCAGAGCCCTCCTGAG	2050
GGGATGCACTCCCAATCTCCTCTCC	2075
AGAGTCCTGAGAGTGCTCCTGAGGG	2100

Figure 1(D)

GGAGGATTCCCTGTCTCCTCTCCAA 2125
ATTCCTCAGAGTCCTCTTGAGGGAG 2150
AGGACTCCCTGTCTTCTCTCCATTT 2175
TCCTCAGAGTCCTCCTGAGTGGGAG 2200
GACTCCCTCTCTCCTCTCCACTTTC 2225
CTCAGTTTCCTCCTCAGGGGGAGGA 2250
CTTCCAGTCTTCTCTCCAGAGTCCT 2275
GTGAGTATCTGCTCCTCCTCCACTT 2300
CTTTGAGTCTTCCCCAGAGTTTCCC 2325
TGAGAGTCCTCAGAGTCCTCCTGAG 2350
GGGCCTGCTCAGTCTCCTCTCCAGA 2375
GACCTGTCAGCTCCTTCTTCTCCTA 2400
CACTTTAGCGAGTCTTCTCCAAAGT 2425
TCCCATGAGAGTCCTCAGAGTCCTC 2450
CTGAGGGGGCCTGCCCAGTCTCCTCT 2475
CCAGAGTCCTGTGAGCTCCTTCCCC 2500
TCCTCCACTTCATCGAGTCTTTCCC 2525
AGAGTTCTCCTGTGAGCTCCTTCCC 2550
CTCCTCCACTTCATCGAGTCTTTCC 2575
AAGAGTTCCCCTGAGAGTCCTCTCC 2600
AGAGTCCTGTGATCTCCTTCTCCTC 2625
CTCCACTTCATTGAGCCCATTAGT 2650
GAAGAGTCCAGCAGCCAGTAGATG 2675

SL26

AATATACAAGTTCCTCAGACACCTT 2700
GCTAGAGAGTGATTCTTGACAGAC 2725
AGCGAGTCCTTGATAGAGAGCGAGC 2750
CCTTGTTCACTTATACTGGATGA 2775
AAAGGTGGACGAGTTGGCGCGGTTT 2800

Figure 1(E)

CTTCTCCTCAAATATCAAGTGAAGC 2825
SL27
AGCCTATCACAAAGGCAGAGATGCT 2850
GACGAATGTCATCAGCAGGTACACG 2875
GGCTACTTTCCTGTGATCTTCAGGA 2900
AAGCCCGTGAGTTCATAGAGATACT 2925
TTTTGGCATTTCCTGAGAGAAGTG 2950
GACCCTGATGACTCCTATGTCTTTG 2975
TAAACACATTAGACCTCACCTCTGA 3000
GGGGTGTCTGAGTGATGAGCAGGGC 3025
ATGTCCCAGAACCGCCTCCTGATTC 3050
TTATTCTGAGTATCATCTTCATAAA 3075
GGGCACCTATGCCTCTGAGGAGGTC 3100
ATCTGGGATGTGCTGAGTGGAATAG 3125
GGGTGCGTGCTGGGAGGGAGCACTT 3150
TGCCTTTGGGGAGCCCAGGGAGCTC 3175
CTCACTAAAGTTTGGGTGCAGGAAC 3200
ATTACCTAGAGTACCGGGAGGTGCC 3225
CAACTCTTCTCCTCCTCGTTACGAA 3250
TTCCTGTGGGGTCCAAGAGCTCATT 3275
CAGAAGTCATTAAGAGGAAAGTAGT 3300
AGAGTTTTTGGCCATGCTAAAGAAT 3325
ACCGTCCCTATTACCTTTCCATCCT 3350
CTTACAAGGATGCTTTGAAAGATGT 3375
GGAAGAGAGAGCCCAGGCCATAATT 3400
GACACCACAGATGATTCGACTGCCA 3425
CAGAAAGTGCAAGCTCCAGTGTCAT 3450
GTCCCCCAGCTTCTCTTCTGAGTGA 3475
AGTCTAGGGCAGATTCTTCCCTCTG 3500

Figure 1(F)

AGTTTGAAGGGGGCAGTCGAGTTTC	3525
TACGTGGTGGAGGGCCTGGTTGAGG	3550
CTGGAGAGAACACAGTGCTATTTGC	3575
ATTTCTGTTCCATATGGGTAGTTAT	3600
GGGGTTTACCTGTTTTACTTTTGGG	3625
TATTTTTCAAATGCTTTTCCTATTA	3650
ATAACAGGTTTAAATAGCTTCAGAA	3675
TCCTAGTTTATGCACATGAGTCGCA	3700
CATGTATTGCTGTTTTTCTGGTTTA	3725
AGAGTAACAGTTTGATATTTTGTA	3750
AAACAAAACACACCCAAACACACC	3775
ACATTGGGAAAACCTTCTGCCTCAT	3800
TTTGTGATGTGTCACAGGTTAATGT	3825
GGTGTTACTGTAGGAATTTTCTTGA	3850
AACTGTGAAGGAACCTCTGCAGTTAA	3875
ATAGTGGAATAAAGTAAAGGATTGT	3900
TAATGTTTGCATTTCCCTCAGGTCCT	3925
TTAGTCTGTTGTTCTTGAAAATAA	3950
AGATACATACCTGGTTTGCTTGGCT	3975
TACGTAAGAAAGTAGAAGAAAGTAA	4000
ACTGTAATAAATAAAAAAAAAAAAAA	4025
AAAAAA	4031

FIG. 2(A)

A1 [exon I] CCATTCTGAGGGAGGCGTA GATTGGCCGAAGAACCT GACCCAGGCTGTGAGGAG GCAAAGtga//... exon II intron I
 C1 GGATCGT CTCAGGTCAGCGGAGGAGG 27
 A1//ctg gagctccaggaaccaggcag tgaagcccttgg//.....c tgaacagatatectcagtc
 C1 AGACTTATAGACCTATCCAG TCTTCAAGt//...//cag GTGCTCCAGAAAGCAGGAGT TGAAGACTGGGTGAGG ACACATACATCCTAAAGCA 115
 A1 exon II intron I
 C1 CCACAGCAGAGGAGGCCAG GCAGTGCAGGAGTCAAGt gagtgcagacctgacttg taccraagggccglaacccca gaaacagtgtcagacttgc
 A1 acagagcagaggaatgcacag ggtgtgccagcagtgaatgt tt-----gccctgaatgca caccaagggcccccacttgc acagacacatagactcca
 C1 CCACAGCAGAGGAGGCCAG GCAGTGCAGGAGTCAAGt gagtgcagacctgacttg taccraagggccglaacccca gaaacagtgtcagacttgc
 A1 cagagtcgtgcctcacttcc ctactgtcagtcctgtagaa tgcac-ctctgtctggccgc tglaccctga-glaccctct caattcctcctcagGTTT 70
 C1 agcaccggccctgtagccac ccactgtcattctctgtgtgc tcatgtctctgtcctgtccagc tgtgcccgagtgcttct cgcgtcctctacagGTTCC 158
 A1 CAGGGCAGAGGCCAACCCAG AGGACAGGATTCCTGGAGG CCACAGAGGAGGACCC---A AGGAGAAGATCTgtgaagtag gcccttgttagagctccaa
 C1 CAGAAGACAAACCCCTAGG AAGACAGGCGACCTGTGAGG CCTAGAGCACCACCTTAAG AGAGAAGAGCTGTAAAGCCG GCCTTGTACAGAGCCATCAT 258
 M 1
 A1 ggttcag-ttctcagctgag gccctcacaacacttccctct ctccc-cagGCTGTGGGTC TTcATTG-CCCAGCTCCTGC CCACACTCCTGCCTGCTGCC 188
 C1 GGtgaatttctcagctgag gccacttgcactgttccctct ctccc-tcagtcctgttggat cccatcatactatttctgt tcaacagtttacttctgtct
 exon III G intron III
 A1 CT--GACGAGAGTCAATCATG TCTCTTGAGCAGAGGAGTCT GCACCTGAAGCCTGAGGAAG CCCTGAGGCCCAACAAGAG GCCCTGGGCTGTGTGTGT 286
 C1 cctgaacaataatcattcatgt cctctcttcttaaaccttcc acgcccacagctttgagcaag gcttcagaagagcaatttc atacttgagttgttagatgc
 Q A A T S S S S P L V L G T L E E V P T A G S T D P P Q S P Q G A 61
 A1 GCAGGCTGCCACCTCCTCTCT CCTCTCCTGTGTCTGGGC ACCCTGAGGAGGTGCCAC TGCTGGGTCAACAGATCCTC CCAGAGTCTCAGGGAGGCC 386
 C1 agaggaatccccca-----
 S A F P T T I N F T R Q R Q P
 A1 TCCGCCTTTCCCACTACCAT CAACCTCACTGCAGAGAGC AACCC----- gatgagaagagag gaagcttctcattttctc ttctcttccacttttatai
 C1 ----- gatgagaagagag gaagcttctcattttctc ttctcttccacttttatai

FIG. 2(B)

A1
 C1 tccctcgtcctcctcgt tttctttcctcctcctc ctcctcctcgttcctcgtt ctcaggggacacagatattg cctactgctggatgccgag 294
 intron III D K D M P T A G M P S 13
 exon IV

A1
 C1 TCCTTCAGAGTTCCTCTG AGAGTCCTCAGAGTTGCTT GAGGGGAGAGACTCCAGTC TCCTTCAGAGATTCGCCAGA GTTCTCCTGAGAGCGAGCAGAC 394
 L L Q S S S E S P Q S Y P E G E D S Q S P L Q I P Q S S P E S D D 46

A1
 C1 ACCCTGATCCTCTCCAGAG TCCTCAGAGTCGTTCTGAGG GGGAGAGCTCCTCGATCCT CTCAGAGACCTCCTGAGGG GAAGAGCTCCAGTCTCTC 494
 T L Y P L Q S P Q S R S E G E D S S D P L Q R P P E G K D S Q S P L 80

A1
 C1 TCCAGATTCGCCAGAGTTCT CCTGAGGGGACAGACACCA GTCTCCTCTCCAGATTCTC AGAGTTCTCTGAGGGGAG GACTCCCTGCTCTCTCTAGA 594
 Q I P Q S S P E G D D T Q S P L Q N S Q S S P E G K D S L S P L E 113

A1
 C1 GATTCTCAGAGCCCTCTG AGGAGAGGATGTCAGTCT CCTTCGAGATCTGCGAG TTCCTTCTCTCTCTGCTT TATTGAGATTTCCAGAGT 694
 I S Q S P P E G E D V Q S P L Q N P A S S F F S S A L L S I F Q S 146

A1
 C1 TCCCTGAGAGTATCAAG TCCTTTGAGGGTTTCCCC AGTCGTTCTCCAGATTCT GTAGGCGCGCCTCTCTCTC CACTTAGTGAGTATTTCC 794
 S P E S I Q S P F E G F P Q S V L Q I P V S A A S S S T L V S I F Q 180

A1
 C1 AGAGTCCCTGAGAGTACT CAAAGTCCTTTGAGGGTTT TCCCAAGTCTCCACTCCAGA TTCCTGTAGCGCGCTCTCTC TCCTCCACTTATTGAGTAT 894
 S S P E S T Q S P F E G F P Q S P L Q I P V S R S F S S T L L S I 213

A1
 C1 TTCCAGAGTCCCTGAGA GAAGTCAGAGAACTTCTGAG GGTTTGACAGAGTCTCTCT CCAGATTCTGTGAGCTCT CCTGCTCCTCCACTTACTG 994
 F Q S S P E R S Q R T S E G F A Q S P L Q I P V S S S S S T L L 246

FIG. 2(C)

A1
 C1 AGCTTTCCAGAGTTCCCG TGAGAGACTCAGAGTACTT TTGAGGGTTTCCAGACTCT CCACTCCAGATTCCTGTGAG CCGCTCCTTCTCCTCAGTT 1094
 S _ L _ F _ Q _ S _ S _ P _ E _ R _ T _ Q | S _ T _ F _ E _ G _ F _ P _ Q _ S _ P _ L _ Q _ I _ P | V _ S _ R _ S _ F _ S _ S _ T _ L _ 280

A1
 C1 TATTGAGTATTTCCAGAGT TCCCCTGAGAGAGACTCAGAG TACTTTGAGGGTTTGCCC AGTCTCCTCCTCAGATTCCT GTGAGCTCCTCCTCCTC 1194
 _ L _ S _ I _ F _ Q _ S _ S _ P _ E _ R _ T _ Q | S _ T _ F _ E _ G _ F _ A _ Q _ S _ P _ L _ Q _ I _ P | V _ S _ S _ S _ S _ S _ S _ 313

A1
 C1 CACTTATGAGTCTTTCC AGAGTCCCGCTGAGAGACT CAGAGTACTTTGAGGGTT TCCCAGACTCTCTCCAGAG TTCCATGACCTCCTCCTTC 1294
 _ T _ L _ L _ S _ L _ F _ Q _ S _ S _ P _ E _ R _ T _ Q | S _ T _ F _ E _ G _ F _ P _ Q _ S _ L _ L _ Q _ I _ P | M _ T _ S _ S _ F _ 346

A1
 C1 TCCTCTACTTATGAGTAT TTCCAGAGTCTCCTGAGA GTGCTCAAGTACTTTGAG GGTTTCCCGAGTCTCCTCT CCAGATTCCTGGAGCCCT 1394
 S _ S _ T _ L _ L _ S _ I _ F _ Q _ S _ S _ P _ E _ S _ A _ Q | S _ T _ F _ E _ G _ F _ P _ Q _ S _ P _ L _ Q _ I _ P | G _ S _ P _ S _ 380

A1
 C1 CCTTCTCCTCAGTTACTG AGTCTTTCCAGAGTTCCCG TGAGAGACTCAGAGTACTT TTGAGGGTTTCCCGAGTCT CCTCTCAGATTCCTATGAC 1494
 _ F _ S _ S _ T _ L _ L _ S _ L _ F _ Q _ S _ S _ P _ E _ R _ T _ H | S _ T _ F _ E _ G _ F _ P _ Q _ S _ P _ L _ Q _ I _ P | M _ T _ 413

A1
 C1 CTCCTCCTTCTCCTACTT TATTGAGTATTTACAGAGT TCTCTGAGAGTGTCAAG TCGTTTGAGGGTTTCCCG AGTCTCCTCCTCAGATTCCT 1594
 _ S _ S _ F _ S _ S _ T _ L _ L _ S _ I _ L _ Q _ S _ S _ P _ E _ S _ A _ Q | S _ A _ F _ E _ G _ F _ P _ Q _ S _ P _ L _ Q _ I _ P | 446

A1
 C1 GTGAGCTCCTTCTCCTCA CACTTATGAGTCTTTCC AGAGTCCCGCTGAGAGACT CAGAGTACTTTGAGGGTT TCCCGAGTCTCCTCCTCAGAG 1694
 V _ S _ S _ S _ F _ S _ Y _ T _ L _ L _ S _ L _ F _ Q _ S _ S _ P _ E _ R _ T _ Q | S _ T _ F _ E _ G _ F _ P _ Q _ S _ P _ L _ Q _ I _ 480

A1
 C1 TTCCTGTGAGCTCCTCCTCC TCCTCCTCAGTATGAG TCTTTCCAGAGTTCCCGT AGTACTCAAGTACTTT GAGGGTTTCCCGAGTCTCC 1794
 P | V _ S _ S _ S _ S _ S _ S _ T _ L _ L _ S _ L _ F _ Q _ S _ S _ P _ E _ C _ T _ Q | S _ T _ F _ E _ G _ F _ P _ Q _ S _ P _ 513

FIG. 2(D)

A1
 C1 TCCTCAGATTCTCAGAGTC CTCCTGAAGGGGAGAAATACC CATTCTCTCTCCAGATTGT TCCAAGTCTTCTGAGTGGG AGGACTCCCTGTCTCTCAC 1894
 L Q I P Q S P P E G E N T H S P L Q I V P S L P E W E D S L S P H 546
 A1
 C1 TACTTCTCAGAGCCCTCC TCAGGGGAGAGACTCCCTAT CTCCTCACTACTTCTCTCAG AGCCCTCCTCAGGGGAGGA CTCCTGTCTCTCACTACT 1994
 Y F P Q S P P Q G E D S L S P H Y F P Q S P P Q G E D S L S P H Y F 580
 A1
 C1 TTCTCAGAGCCCTCAGGGG GAGAGCTCCCTGTCTCTCA CTACTTCTCAGAGCCCTC CTCAGGGGAGAGACTCCATG TCTCTCTCTACTTCTCTCA 2094
 P Q S P Q G E D S L S P H Y F P Q S P P Q G E D S M S P L Y F P Q 613
 A1
 C1 GAGTCTCTTCAAGGGGAGG AATTCCAGTCTTCTCTCAG AGCCCTGTGAGCATGTCTC CTCCTCACTCCATCCAGTC TTCCCAGAGTTCCCTGAG 2194
 S P L Q G E E F Q S S L Q S P V S I C S S S T P S S L P Q S F P E 646
 A1
 C1 AGTTCTCAGAGTCTCTCTGA GGGGCTGTCCAGTCTCTC TCCATAGTCTCTCAGAGCCCT CCTGAGGGGATGCACTCCCA ATCTCTCTCCAGAGTCTG 2294
 S S Q S P P E G P V Q S P L H S P Q S P P E G M H S Q S P L Q S P E 680
 A1
 C1 AGAGTCTCTGAGGGGGAG GATTCCGTGTCTCTCTCCA AATTCCTCAGAGTCTCTTG AGGAGAGAGACTCCCTGTCT TCTCTCATTTCTCTCAGAG 2394
 S A P E G E D S L S P L Q I P Q S P L E G E D S L S S L H F P Q S 713
 A1
 C1 TCCTCTGAGTGGGAGACT CCCTCTCTCTCTCTCACTTT CCTCAGTTTCTCTCTCAGGG GGAGAGACTTCCAGTCTTCTC TCCAGAGTCTGTGAGTATC 2494
 P P E W E D S L S P L H F P Q F P P Q G E D F Q S S L Q S P V S I 746
 A1
 C1 TGCTCTCTCTCACTTCTTT GAGTCTTCCCAAGAGTTCC CTGAGAGTCTCAGAGTCTT CCTGAGGGGCTGTCTCAGTC TCCTCTCAGAGACTGTCA 2594
 C S S T S L S L P Q S F P E S P Q S P P E G P A Q S P L Q R P V S 780
 A1
 C1 GCTCTTCTCTCTACACT TTAGGAGTCTTCTCCAAG TTCCATGAGAGTCTCTAGA GTCTCTGAGGGGCTGCC CAGTCTCTCTCTCAGAGTCC 2694
 S F F S Y T L A S L L Q S S H E S P Q S P P E G P A Q S P L Q S P 813

FIG. 2(E)

A1 TGAGAGCTCTCCCTCCT CCACCTCATCGAGCTTCC CAGAGTCTCTGTGAGCTC CTCCTCCCTCCTCCTCAT CGAGCTTTCAGAGATTCC 2794
 [V] S S F P S S T S S L S Q S S P [V] S S F P S S T S S [S] L S K S S 846
 A1 S E G S S S R E E E G P S 89
 C1 CCTGAGAGTCTCTCCAGAG TCCTGTGATCTCTTCTCT CCTCCACTTCATTGAGCCCA TTCACTGAAGAGTCCAGCAG CCCAGTAGATGAATATACAA 2894
 P E S P L Q S P [V] S F S S T S L S P [S] S E E S S P V D E Y T S 880
 T S C I L E S L F R A V I T K K V A 108
 A1 GCACCTCTTGATCTG... .. GAGTCTTGTTCCGAGCA GTAACTACTAAGAAGGTGCG 523
 C1 GTTCCTCAGACACCTTGCTA GAGAGTATCTTGACAGA CAGCGAGTCTTGATAGAGA GCGAGCCCTTGTTCACTTAT ACACGTGATGAAGAAGGTGGA 2994
 S S D T L L E S D S L T D S E S L I E S E P L F T Y T L D E K V D 913
 D L V G F L L L K Y R A R E P V T K A E M L E S V I K N Y K H C F 140
 A1 TGAATTTGGTTGTTTCTGC TCCTCAATAATCAGACCAGG GAGCCAGTCACAAAGGCAGA AATGCTGAGAGTGTATCA AAATTAACAAGCACTGTTT 623
 C1 CGAGTTGGCGCGTTTCTTC TCCTCAATAATCAGTGAAG CAGCCTATCACAAGGCAGA GATGCTGACGAATGTATCA GCAGGTACACGGGCTACTTT 3094
 E L A R F L L L K Y Q V K Q P I T K A E M L T N V I S R Y T G Y F 946
 P E I F G K A S E S L Q L V F G I D V K E A D P T G H S Y V L V T C 174
 A1 CCTGAGATCTTGGCAAGC CTCTGAGTCTTGACGTGG TCTTTGGCATTGACGTGAAG GAAGCAGACCCACCGGCCA CTCCTATGTCCTTGTCACCT 723
 C1 CCTGTGATCTTCAGGAAGC CCGTGAGTTCATAGAGATAC TTTTGGCAATTCCTGAGA GAAGTGACCCCT...GATGA CTCCTATGTCCTTGTAACA 3191
 P V I F R K A R E F I E I L F G I S L R E V D P . D D S Y V F V N T 979
 L G L S Y D G L L G D N Q I M P K T G F L I I V L V M I A M E G G 207
 A1 GCCTAGGCTCTCTCTATGAT GGCCTGTGGTGATATCA GATCATGCCCAAGACAGGCT TCCTGATAATTGTCCTGCTC ATGATTGCAATGGAGGGCGG 823
 C1 CATTAGACCTCACCCTCTGAG GGGTGTCTGAGTATGAGCA GGGCATGTCACAGACCGCC TCCTGATTCCTAATCTGAGT ATCATCTTCATAAAGGGCAC 3291
 L D L T S E G C L S D E Q G M S Q N R L L I L I L S I I F I K G T 1012
 H A P E E E I W E E L S F M E V Y D G R E H S A Y G E P R K L L T 240
 A1 CCATGCTCTGAGGAGAAA TCTGGAGAGCTGAGTGTG ATGAGGTGATGATGGGAG GGAGCAGAGTGCCTATGGGG AGCCACGGAAGCTGCTCACC 923
 C1 CTATGCCCTGAGGAGGTCA TCTGGAGTGTCTGAGTGA ATAGGGGTGCTGCTGGGAG GGAGCACTTTCCTTTGGGG AGCCACGAGGAGCTCCTCACT 3391
 Y A S E E V I W D V L S G I G V R A G R E H F A F G E P R E L L T 1045

FIG. 2(F)

Q D L V Q E K Y L E Y R Q V P D S D P A R Y E F L W G P R A L A E T 274
A1 CAAGATTGGTGAGGAAAA GTACCTGGAGTACCGGACAGG TGCCGGACAGTATCCGCA CGCTATGAGTTCCTGTGGGG TCCAAGGGCCCTCGTGAAA 1023
C1 AAAGTTGGGTGACGGAACA TTACCTAGAGTACCGGAGG TGCCCACTCTTCTCTCT CATTAGAAATTCCTGTGGGG TCCAAGAGCTCATTGAGAAG 3491
K V W V Q E H Y L E Y R E V P N S S P P R Y E F L W G P R A H S E V 1079

S Y V K V L E Y V I K V S A R V R F F F P S L R E A A L R E E E E 307
A1 CCAGCTATGTGAAGTCCTT GAGTATGTATCAAGTCAAG TGCAAGAGTTGCTTTTCT TCCATCCCTGCGTGAAGCA GCTTGAGAGAGGAGGAAGA 1123
C1 TCATTAGAGGAAAGTAGTA GAGTTTTGGCCATGCTAAA GAATACCGTCCCTATTACCT TTCATCCTCTTACAAGGAT GCCTTGAAGATGTGAAGA 3591
I K R K V V E F L A M L K N T V P I T F P S S Y K D A L K D V E E 1112

G V OPA 309
A1 GGGAGTGTGAGCATGAGTTG CAGCCAAGGCCAGTGGAGG GGGACTGGGCCAGTGCACCT TCCAGGGCCGCGTCCAGCAG CTTCCCTGCGTGTGAC 1223
C1 GAGAGCCGAGGCCATATTG ACACCACAGATGATTCGACT GCCACAGAAAGTGCAAGCTC CAGTGTCATGTCCCCAGCT TCTCTTCTGAGTGAAGTCTA 3691
R A Q A I I D T T D D S T A T E S A S S S V M S P S F S S E OPA 1142

A1 ---ATGAGGCCCATTTCTCA CTCGAAGAGAGCGGTCACT GTTCTCAGTAGAG..... GTTTC 1279
C1 GGGCAGATTCTTCCCTCTGA GTTTGAAGGGGGGCGAGTCAG TTTCTACGTGTTGAGGGCC TGCTGAGGCTGAGAGAAC ACAGTGTATTGCAITTTCT 3791

A1 TGTTCTATTGGGTGACTTG AGATTATCTTTGTTCTCT TTGGAATTGTTCAATGTTT TT..TTTAAGGATGTTG AATGAACCTCAGCATCCAAG 1377
C1 GTTCCATATGGGTAGTATG GGGTTTACCTGTTTACTTT TGGTATTTTTCAATGCTT TTCCTATTATAACAGGTTT AAATAGCTTCAGAATCTAG 3891

A1 TTATGAATGACAGCAGT-C ACACAGTTCTGTGTATATAG TTTAAGGTAAGAGTCTGT GTTTATTGAGATTGGGAAA TCCATTCTAITTTGTGAAT 1476
C1 TTATGACATGAGTCGCAC ATGTATTGCTGTTTCTGG TTTAAGAGTAACAGTTGAT ATTTGTAAAAACAAAAACA CACCCAAACACACACACATTG 3991

A1 GGGATAATAACAGCAGTGGA ATAAGTACTTAGAATGTGA AAAATGAGCAGTAAATAGA TGAGATAAAGAAGCTAAAGAA ATTAAGAGATAGTCAATTCT 1576
C1 GGAAACCTTCTGCCTCATT TTGTATGTGTACACAGGTTA ATGTGTGTACTGTAGGAA TTTTCTGAAACTGTGAAGG AACCTGCAGTTAAATAGTG 4091

A1 TGCCTTATACCTCAGTCTAT TCTGTAAATTTTAAAGAT ATATGATACCTGGAATTC TTGGCTTCTTTGAGATGTA AGAGAATTAATCTGAATA 1676
C1 GAATAAAGTAAGGATTGTT AATGTTGCAATTCCTCAGG TCCTTAGTCTGTGTTCTT GAAAACTAAAGATACATACC TGGTTTGTGCTTGGCTTACGTA 4191

A1 AAGAATTCCTCTGT..... 1691
C1 AGAAAGTAGAAGAAAGTAAA CTGTAATAATAAA 4225

FIG. 3

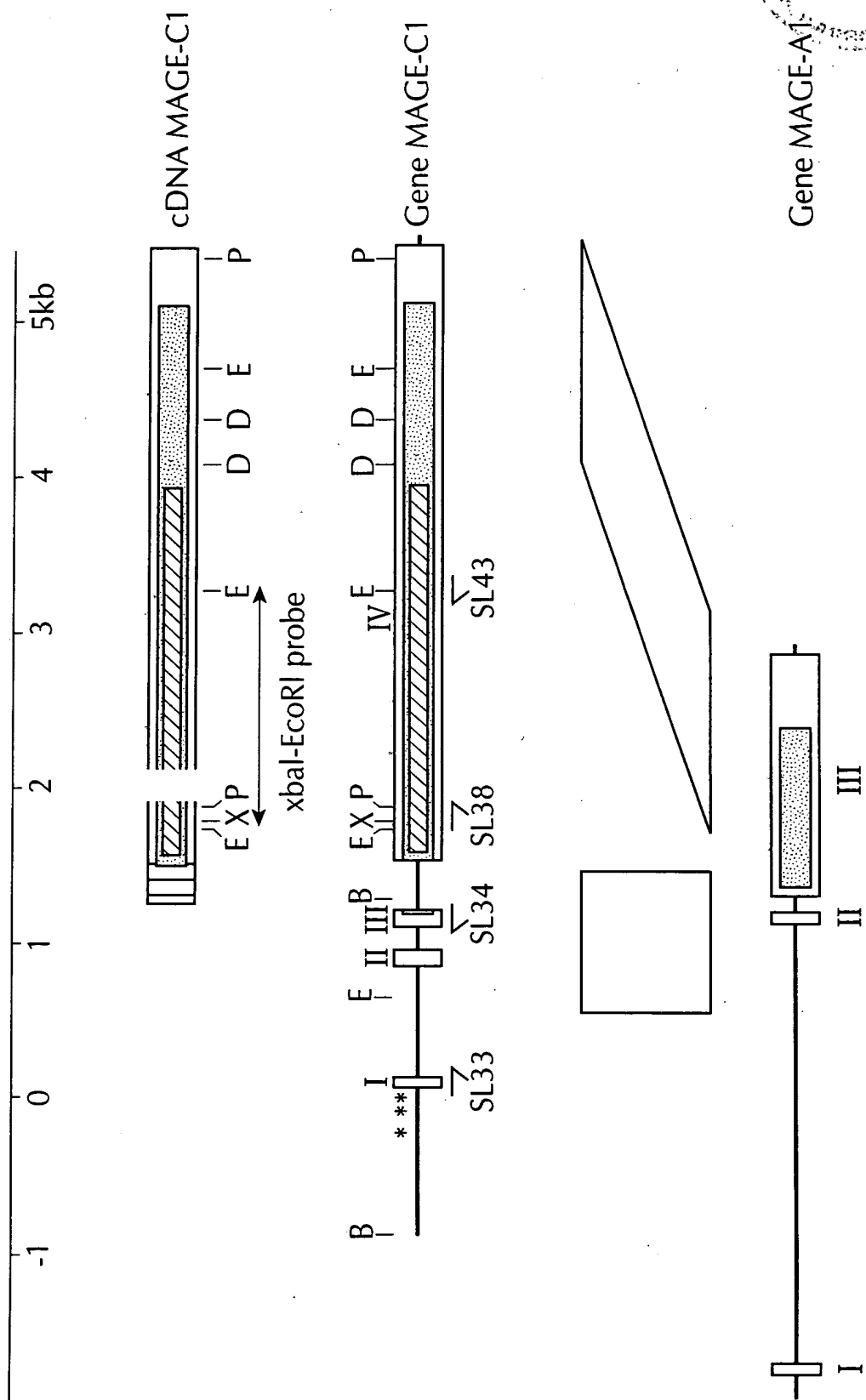


FIG. 4

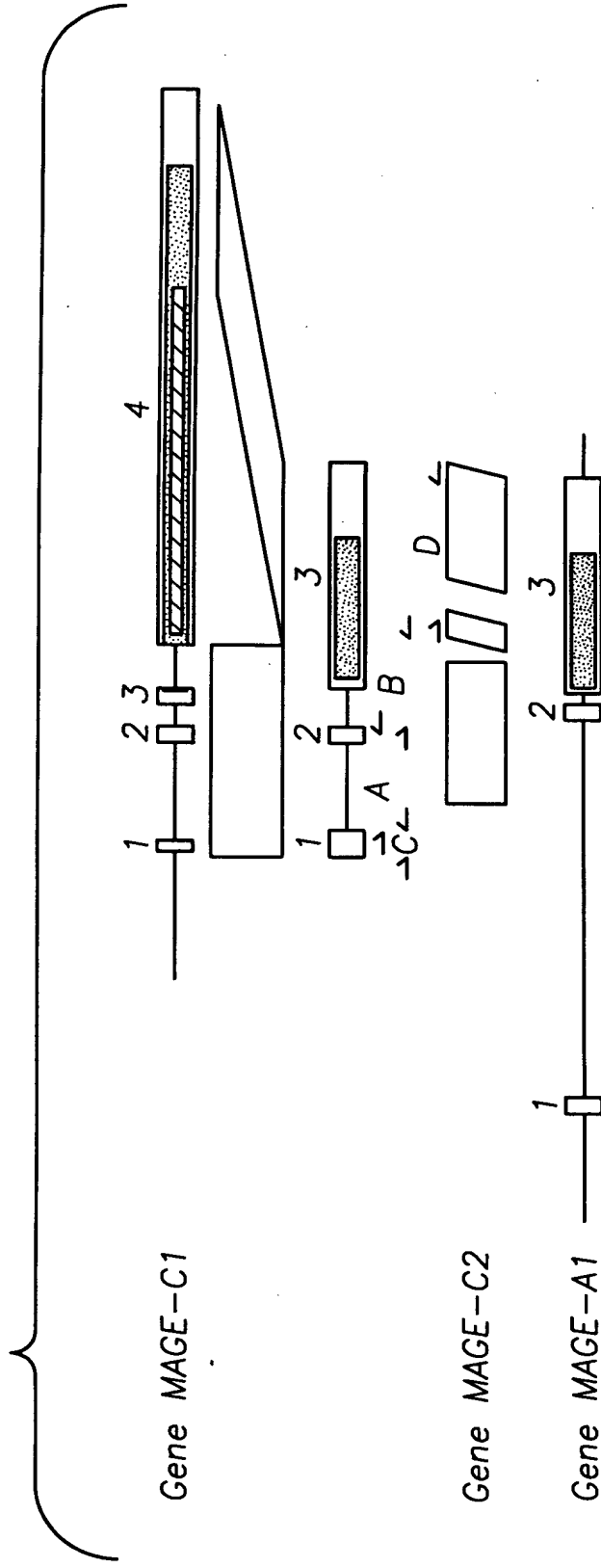


Figure 5 **Nucleotide sequence of gene MAGE-C3**
(SEQ ID NO: 21)

The sequence corresponds to nucleotides 3761 to 4801 of PAC clone 232G24 (GenBank accession number AL022152). It has been renumbered in this figure, taking as nucleotide number 1 the first nucleotide of the start codon.

Primers SL164 and SL165 that were used in the RT-PCR assay are indicated.

```
ATGCCTCTCTTTCCAAACCTTCCACGCCTCAGCTTTGAGGAAGACTTCCA      50
GAACCCGAGTGTGACAGAGGACTTGGTAGATGCACAGGATTCCATAGATG      100
AGGAGGAGGAGGATGCCTCCTCCACTTCCTCTTCCTCTTTCCACTTTTTA      150
TTCCCTCCTCCTCTTCCTTGTCCTCATCCTCACCTTGTCCTCACCTT      200
                               SL164
ACCCTCTACTCTCATTCTGGGTGTTCCAGAAGATGAGGATATGCCTGCTG      250
CTGGGATGCCACCTCTTCCCCAGAGTCCTCCTGAGATTCCTCCCCAGGGT      300
CCTCCCAAGATCTCTCCCCAGGGTCCTCCGCAGAGTCCTCCCCAGAGTCC      350
TCTAGACTCCTGCTCATCCCCTCTTTTGTGGACCCGATTGGATGAGGAGT      400
CCAGCAGTGAAGAGGAGGATACAGCTACTTGGCATGCCTTGCCAGAAAGT      450
GAATCCTTGCCCAGGTATGCCCTGGATGAAAAGGTGGCTGAGTTGGTGCA      500
GTTTCTTCTCCTCAAATATCAAACAAAAGAGCCTGTCACAAAGGCAGAGA      550
TGCTGACGACTGTCATCAAGAAGTATAAGGACTATTTTCCCATGATCTTC      600
GGGAAAGCCCATGAGTTCATAGAGCTAATTTTGGCATTGCCCTGACTGA      650
TATGGACCCCGACAACCACTCCTATTTCTTTGAAGACACATTAGACCTCA      700
CCTATGAGGGAAGCCTGATTGATGACCAGGGCATGCCCAAGAAGTGTCTC      750
                               SL165
CTGATTCTTATTCTCAGTATGATCTTCATAAAGGGCAGCTGTGTCCCCGA      800
GGAGGTCATCTGGGAAGTGTTGAGTGCAATAGGGGTGTGTGCTGGGAGGG      850
AGCACTTTATATATGGGGATCCCAGAAAGCTGCTCACTATACATTGGGTG      900
CAGAGAAAGTACCTGGAGTACCGGGAGGTGCCCAACAGTGCTCCTCCACG      950
TTATGAATTTTGTGGGGTCCAAGAGCCCATTCAGAGGCCAGCAAGAGAA      1000
GTCTTAGAGTTTTTATCCAAGCTATCCAGTATCATCCCTAG      1041
```

**Figure 6 Amino-acid sequence of the putative MAGE-C3
protein (SEQ ID NO: 22)**

MPLFPNLPRLSFEEDFQNPSVTEDLVDAQDSIDEEEDASSTSSSSFHFL 50
FPSSSSLSSSSPLSSPLPSTLILGVPEDEDMPAAGMPPLPQSPPEIPPQG 100
PPKISPQGPPQSPPQSPLDSCSSPLLWTRLDEESSSEEDTATWHALPES 150
ESLPRYALDEKVAELVQFLLLKYQTKEPVTKAEMLTTVIKKYKDYFPMIF 200
GKAHEFIELIFGIALTDMDPDNHSYFFEDTLDLTYEGSLIDDQGMCKNCL 250
LILILSMIFIKGSCVPEEVIWEVLSAIGVCAGREHFIYGDPRKLLTIHWV 300
QRKYLEYREVPNSAPPRIEFLWGPRAHSEASKRSLRVFIQAIQYHP 346

**Figure 7 Nucleotide sequence of gene MAGE-B5
(SEQ ID NO: 23)**

This sequence is the antiparallel sequence corresponding to nucleotides 123358 to 124185 of BAC clone 466O4 (GenBank accession number AC005297). The sequence has been renumbered in this figure, taking the first nucleotide of the start codon as nucleotide number 1.

Primers SL189 and SL190 that were used in the RT-PCR assay are indicated.

ATGACTTCTGCAGGTGTTTTTAATGCAGGATCTGACGAAAGGGCTAACAG	50
TAGAGATGAGGAGTACCCATGTTTCCTCAGAGGTCTCACCTCCACTGAGA	100
GTTTCATGCAGCAATTTTCATAAATATTAAGGTGGGTTTGTGGAGCAGTTC	150
CTGCTCTACAAGTTCAAAATGAAACAGCGTATTTTGAAGGAAGATATGCT	200
GAAGATTGTCAACCCAAGATACCAAAACCAGTTTGCTGAGATTACAGAA	250
GAGCTTCTGAGCACATTGAGGTTGTCTTTGCAGTTGACTTGAAGGAAGTC	300
AACCCAACCTTGTCACCTTATATGACCTTGTCAGCAAGCTGAAACTCCCCAA	350
CAATGGGAGGATTTCATGTTGGCAAAGTGTTACCCAAGACTGGTCTCCTCA	400
SL189	
TGACTTTCCTGGTTGTGATCTTCCTGAAAGGCAACTGTGCCAACAAGGAA	450
GATACCTGGAAATTTCTGGATATGATGCAAATATATGATGGGAAGAAGTA	500
CTACATCTATGGAGAGCCCAGGAAGCTCATCACTCAGGATTTTCGTGAGGC	550
TAACGTACCTGGAGTACCACCAGGTGCCCTGCAGTTATCCTGCACACTAT	600
CAATTCCTTTGGGGTCCAAGAGCCTATACTGAAACCAGCAAGATGAAAGT	650
CCTGGAATATTTGGCCAAGGTCAATGATATTGCTCCAGGTGCCTTCTCAT	700
SL190	
<u>CACAA</u> TATGAAGAGGCTTTGCAAGATGAGGAAGAGAGCCCAAGCCAGAGA	750
TGCAGCCGAAACTGGCACTACTGCAGTGGCCAAGACTGTCTCAGGGCGAA	800
GTTTCAGCAGCTTCTCTCAACCCTATTGA	828

**Figure 8 Amino-acid sequence of the putative MAGE-B5
protein (SEQ ID NO: 24)**

MTSAGVFNAGSDERANSRDEEYPCSSSEVSPSTESSCSNFINIKVGLLEQF	50
LLYKFKMKQRILKEDMLKIVNPRYQNQFAEIHRRASEHIEVVFAVDLKEV	100
NPTCHLYDLVSKLKLPNNGRIHVGKVLPKTGLLMTFLVVIFLKGNCANKE	150
DTWKFLDMMQIYDGKKYYIYGEPRKLITQDFVRLTYLEYHQVPCSYPAHY	200
QFLWGPRAYTETSKMKVLEYLAKVNDIAPGAFSSQYEEALQDEEESPSQR	250
CSRNWHYCSGQDCLRAKFSSFSQPY	275

**Figure 9 Nucleotide sequence of gene MAGE-B6
(SEQ ID NO: 25)**

This sequence is the antiparallel sequence corresponding to nucleotides 146417 to 147640 of BAC clone 466O4 (GenBank accession number AC005297). The sequence has been renumbered in this figure, taking the first nucleotide of the start codon as nucleotide number 1.

Primers SL191 and SL192 that were used in the RT-PCR assay are indicated.

```
ATGCCTCGGGGTCACAAGAGTAAGCTCCGTACCTGTGAGAAACGCCAAGA      50
GACCAATGGTCAGCCACAGGGTCTCACGGGTCCCCAGGCCACTGCAGAGA      100
AGCAGGAAGAGTCCCACTCTTCTCATCCTCTTCTCGCGCTTGTCTGGGT      150
                        SL191
GATTGTCGTAGGTCTTCTGATGCCTCCATTCTCAGGAGTCTCAGGGAGT      200
GTCACCCACTGGGTCTCCTGATGCAGTTGTTTCATATTCAAATCCGATG      250
TGGCTGCCAACGGCCAAGATGAGAAAAGTCCAAGCACCTCCCGTGATGCC      300
TCCGTTCTCAGGAGTCTCAGGGAGCTTCACCCACTGGCTCTCCTGATGC      350
AGGTGTTTCAGGCTCAAAATATGATGTGGCTGCCAACGGCCAAGATGAGA      400
AAAGTCCAAGCACTTCCCATGATGTCTCCGTTCTCAGGAGTCTCAGGGA      450
GCTTCACCCACTGGCTCGCCTGATGCAGGTGTTTCAGGCTCAAAATATGA      500
TGTGGCTGCCGAGGGTGAAGATGAGGAAAGTGTAAGCGCCTCACAGAAAG      550
                        SL192
CCATCATTTTTTAAGCGCTTAAGCAAAGATGCTGTAAAGAAGAAGGCGTGC      600
ACGTTGGCGCAATTCCTGCAGAAGAAGTTTGAGAAGAAAGAGTCCATTTT      650
GAAGGCAGACATGCTGAAGTGTGTCCGCAGAGAGTACAAGCCCTACTTCC      700
CTCAGATCCTCAACAGAACCTCCCAACATTTGGTGGTGGCCTTTGGCGTT      750
GAATTGAAAGAAATGGATTCCAGCGGCGAGTCCTACACCCTTGTCAGCAA      800
GCTAGGCCTCCCCAGTGAAGGAATTCTGAGTGGTGATAATGCGCTGCCGA      850
AGTCGGGTCTCCTGATGTCGCTCCTGGTTGTGATCTTCATGAACGGCAAC      900
TGTGCCACTGAAGAGGAGGTCTGGGAGTTCCTGGGTCTGTTGGGGATATA      950
TGATGGGATCCTGCATTCAATCTATGGGGATGCTCGGAAGATCATTACTG      1000
AAGATTTGGTGCAAGATAAGTACGTGGTTTACCGGCAGGTGTGCAACAGT      1050
GATCCTCCATGCTATGAGTTCCTGTGGGGTCCACGAGCCTATGCTGAAAC      1100
CACCAAGATGAGAGTCCTGCGTGTTTTGGCCGACAGCAGTAACACCAGTC      1150
CCGGTTTATACCCACATCTGTATGAAGACGCTTTGATAGATGAGGTAGAG      1200
AGAGCATTGAGACTGAGAGCTTAA      1224
```

Figure 10 Amino-acid sequence of the putative MAGE-B6 protein (SEQ ID NO: 26)

MPRGHKSKLRTCEKRQETNGQPQGLTGPOATAEKQEESHSSSSSSSRACLG
DCRRSSDASIPQESQGVSPGTGSPDAVVSYKSDVAANGQDEKSPSTSRDA 100
SVPQESQGASPTGSPDAGVSGSKYDVAANGQDEKSPSTSHDVSVVPQESQG 150
ASPTGSPDAGVSGSKYDVAAEGEDEESVSASQKAIIFKRLSKDAVKKKAC 200
TLAQFLQKKFEKKESILKADMLKCVRRREYKPYFPQILNRTSQHLVVAFGV 250
ELKEMDSSGESYTLVSKLGLPSEGILSGDNALPKSGLLMSLLVVI FMNGN 300
CATEEEVWEFLGLLGIYDGILHSIYGDARKIITEDLVQDKYVVYRQVCNS 350
DPPCYEFLWGP RAYAETTKMRVLRVLADSSNTSPGLYPHLYEDALIDEVE 400
RALRLRA 407